US ERA ARCHIVE DOCUMENT



# ALB Engineering & Technology, PLLC

Mining, Civil, Environmental Engineering & Information Technology

PO BOX 166, Hebron, KY 41048

Phone: (859) 982-9468 Fax: (859) 918-1516

March 28, 2010

Mr. Ross Bishop Division of Water 200 Fair Oaks Lane Frankfort, Kentucky 40601

> RE: Mitco Enterprises, Inc. KPDES #: KYG046385 DNR #: 826-0630

Mr. Bishop:

Please find enclosed Form 1, Form C and SDAA for the above-referenced permit application for individual permit coverage under KPDES. The application filing fee \$660 has already been paid to DOW.

Should you have any questions and/or comments regarding this application please contact me at (859) 982-9468 or e-mail me at <a href="mailto:ballen@albEngrTech.com">ballen@albEngrTech.com</a>.

Respectfully submitted,

Beibei Allen, Ph.D., P.E.

Beibos Allen

President of ALB Engr. & Tech, PLLC

Director of Engineering & Permitting of

Jadco Enterprises, Inc.

Mitco Enterprises, Inc.

Big Valley Coal, LLC



STEVEN L. BESHEAR

**GOVERNOR** 

#### **ENERGY AND ENVIRONMENT CABINET**

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER
200 FAIR OAKS LANE

FRANKFORT, KENTUCKY 40601 www.kentucky.gov

January 15, 2010

Charlie Collins Mitco Enterprises, Inc. 19485 South Highway 66 PO Box 38 Beverly, KY 40913

Re: KPDES Application Notice of Deficiency KPDES No.: KY0108448 Brutus #2 Mine / 826-0630 AI ID: 104987 Clay County, Kentucky

LEONARD K. PETERS
SECRETARY

Dear Mr. Collins:

Your Kentucky Pollutant Discharge Elimination System (KPDES) permit application for the above-referenced facility was received by the Division of Water on January 14, 2010. A completeness review of your permit application has been conducted and the application has been determined to be incomplete. Please complete the deficiencies listed below and return to me at the following address within thirty (30) days of the date of this letter.

Division of Water, Surface Water Permits Branch ATTN: Mr. Erich Cleaver 200 Fair Oaks Lane Frankfort, Kentucky 40601

- 1. Due to changes in the Division's antidegradation requirements, all new or expanded facilities must submit a Socioeconomic Demonstration and Alternatives Analysis (SDAA). A copy of the form can be accessed online at <a href="http://www.water.ky.gov/homepage\_repository/kpdes\_permit\_aps.htm">http://www.water.ky.gov/homepage\_repository/kpdes\_permit\_aps.htm</a>
- 2. Please be advised that the KPDES application filing fee for an Individual Surface Mining is 660.00. Submit the remaining KPDES application filing fee in the amount of \$420.00. Your check should be made payable to "Kentucky State Treasurer."

Failure to respond within thirty (30) days may result in the Cabinet returning your application to you and retaining filing fees that have been paid, as per 401 KAR 5:300, Section 2(2). If you have any questions concerning this request, please contact me at (502) 564-3410, extension 4917 or by e-mail at <a href="https://example.com/Erich.Cleaver@ky.gov"><u>Erich.Cleaver@ky.gov</u></a>.

Sincerely,

**Erich Cleaver** 

Surface Water Permits Branch

Division of Water

ESC:

Cc: Beibei Allen – ALB Engineering & Technology

**TEMPO** 





# ALB Engineering & Technology, PLLC

Mining, Civil, Environmental Engineering & Information Technology

PO BOX 166, Hebron, KY 41048

Phone: (859) 982-9468 Fax: (859) 918-1516

December 14, 2009

Mr. Ross Bishop Division of Water 200 Fair Oaks Lane Frankfort, Kentucky 40601

> RE: Mitco Enterprises, Inc. KPDES #: KYG046385 DNR #: 826-0630

Mr. Bishop:

Please find enclosed Form 1 and Form C for the above-referenced permit application for individual permit coverage under KPDES. The application filing fee \$240 should have been already mailed to DOW the last week.

Should you have any questions and/or comments regarding this application please contact me at (859) 982-9468 or e-mail me at <a href="mailto:ballen@albEngrTech.com">ballen@albEngrTech.com</a>.

Respectfully submitted,

Beibei Allen, Ph.D., P.E.

Beibos Allen

President of ALB Engr. & Tech, PLLC

Director of Engineering & Permitting of

Jadco Enterprises, Inc.

Mitco Enterprises, Inc.

Chas Coal, LLC

Big Valley Coal, LLC



STEVEN L. BESHEAR GOVERNOR

#### **ENERGY AND ENVIRONMENT CABINET**

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER
200 FAIR OAKS LANE
FRANKFORT, KENTUCKY 40601
www.kentucky.gov

October 30, 2009

Mr. Charles Collins Mitco Enterprises, Inc P.O. Box 115; Hwy 66 Beverly, KY 40913

Re: Wiles Branch; Clay County

LEONARD K. PETERS

**SECRETARY** 

KPDES #: KYG046385 DNR #: 826-0630 AI #: 104987

Dear Mr. Collins

In reviewing the NOI-CM for the DNR permit #826-0630, the Division of Water (DOW) determined that the operation proposes to discharge to Bullskin Creek via Wiles Branch. Recent DOW ambient watershed monitoring identified Bullskin Creek as an excellent supporting water for all biological communities. In accordance with Division of Water policy (Part III-B, item 14) of the Coal General Permit), those operations which discharge or propose to discharge to such receiving streams are excluded from general permit coverage and must obtain an Individual KPDES Permit.

For your convenience the necessary forms for an Individual Permit can be obtained at <a href="http://www.water.ky.gov/homepage">http://www.water.ky.gov/homepage</a> repository/kpdes permit aps.htm. Please complete KPDES Forms 1 & C and return these forms with the filing fee of \$240.00 to the address shown on the forms.

If you have any questions regarding the Division's decision, please contact me at (502) 564-3410, extension 4895, or by e-mail at larry.dusak@ky.gov.

Sincerely,

Lawrence J. Dusak

Operational Permits Section Surface Water Permits Branch

Lawrence J. Durck

Division of Water

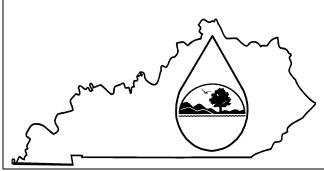
LJS:1jd

c: Debbie Haggard - Eng Consulting Services, Inc Division of Mine Permits



KentuckyUnbridledSpirit.com

An Equal Opportunity Employer M/F/D



# KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

# PERMIT APPLICATION

This is an application to: (check one)  A complete application consists of this form and one of the									
Apply for a new permit.		following:							
Apply for reissuance of expiring p	permit.	Form A, Form B, Form C, Form F, or Form SC							
Apply for a construction permit.									
☐ Modify an existing permit.		For additional in							
Give reason for modification und	er Item II.A.	Surface Water I	Permits I	Brancl	h (502)	) 564-3 <sup>4</sup>	410		
		AGENCY							
I. FACILITY LOCATION AND CO	NTACT INFORMATION	USE							
A. Name of Business, Municipality, Cor Mitco Enterprises, Inc.	nit								
B. Facility Name and Location		C. Primary Ma	iling Add	dress (a	all facili	ty corresp	ondence	will be s	ent to
Facility Location Name:		Facility Contact N	ame and Ti	itle: Mı	r. 🛛 N	1s. 🗌			
Brutus #2 Mine		Charlie Collins							
Facility Location Address (i.e. street, road, etc., n	ot P.O. Box):	Mailing Address:							
0.3 mile East of Brutus on KY 1482		PO Box 38, 19485	South High	hway 66	5				
Facility Location City, State, Zip Code:		Mailing City, State							
Brutus, KY 40972		Beverly, KY 4091	3						
D. Owner's name (if not the same as in part A an	d C):	Facility Contact Te	elephone N	umber:					
Charlie Collins		(606) 596-0110							
Owner's Mailing Address: PO Box 115, HWY 6	Owner's Telephone Number (if different): (606) 596-0111								
II. FACILITY DESCRIPTION		1							
A. Provide a brief description of activi	ties, products, etc:								
Surface re-mining (auger) the Hazard N		of 1220' under DN	R Permit	t No. 8	326-06	30. The	e permit	includ	es
36.58 acres of surface disturbance and 2									
are to be built to control surface drainag	ge.								·
B. Standard Industrial Classification (SI	(C) Code and Description								
Principal SIC Code &									
Description: 1221	Bituminous Coal and Lighit	e-Surface Mining			1				
Other SIC Codes:									
omer are codes.	I				1				
III. FACILITY LOCATION									
A. Attach a U.S. Geological Survey 7 ½ minute quadrangle map for the site. (See instructions)									
B. County where facility is located:	City where facility is located (if applicable): Brutus								
C. Body of water receiving discharge: Bullskin Creek									
D. Facility Site Latitude (degrees, minu	tes, seconds):	Facility Site Long	gitude (de	egrees	, minu	tes, sec	onds):		
37-14-48		83-34-11							
E. Method used to obtain latitude & lon	gitude (see instructions):	Topo map coordi	nates						

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A. Type of Ownership:	TON								
Publicly Owned Privately Owned State Owned Both Public and Private Owned Federally owned									
B. Operator Contact Information (See instructions)  Name of Treatment Plant Operator:  Telephone Number:									
		retephone rumber.							
Operator Mailing Address (Street):									
Operator Mailing Address (City, State, Zip Code):									
Is the operator also the owner?			If yes, list certification class and number below.						
Yes No Certification Class:		Yes No Certification Number:							
V. EXISTING ENVIRONMENTAL PE	RMITS  Issue Date of Current Perr		Franciscian Data of Comment Description						
Current NPDES Number:	Issue Date of Current Perr	nit:	Expiration Date of Current Permit:						
KYG046385 Other DOW Operational Permit #:	Kentucky DMR Permit No	ımber(s):	Sludge Disposal Permit Number:						
	826-0630								
Other Existing Environmental Permit #:	Other Existing Environme	ntal Permit #:	Other Existing Environmental Permit #:						
Which of the following additional environmental permit/registration categories will also apply to this facility?									
	1 8	<u>.                                    </u>							
CATEGORY	FXISTING PER	RMIT WITH NO.	PERMIT NEEDED WITH PLANNED APPLICATION DATE						
	EMBTHOTE	duir willing.	TELLING INTERCENTION DATE						
Air Emission Source									
Solid or Special Waste									
Hazardous Waste - Registration or Permit									
VI. DISCHARGE MONITORING REP	PORTS (DMRs)								
			regular schedule (as defined by the KPDES one number of the DMR official and the DMR						
mailing address (if different from the prima			the number of the Divite official and the Divite						
A DMD Official (i.e. the department	office on individual	1							
A. DMR Official (i.e., the department, designated as responsible for submitti									
Division of Water):		Beibei Allen, PhD, PE							
DMR Official Telephone Number:		(859) 982-9468							
D. DMD Mailing Address.									
<ul><li>B. DMR Mailing Address:</li><li>Address the Division of Water wi</li></ul>	ll use to mail DMR form	ns (if different from m	nailing address in Section I.C), or						
			Rs for you; e.g., contract laboratory address.						
DMR Mailing Name:	ALB Engineering & To	echnology, PLLC							
		6,,							
DMR Mailing Address:	2182 Blair Dr.								
DMR Mailing City, State, Zip Code: Hebron, KY 41048									

VII. APPLICATION FILING FEE			
	VII. APPLICATION FILING FEE		

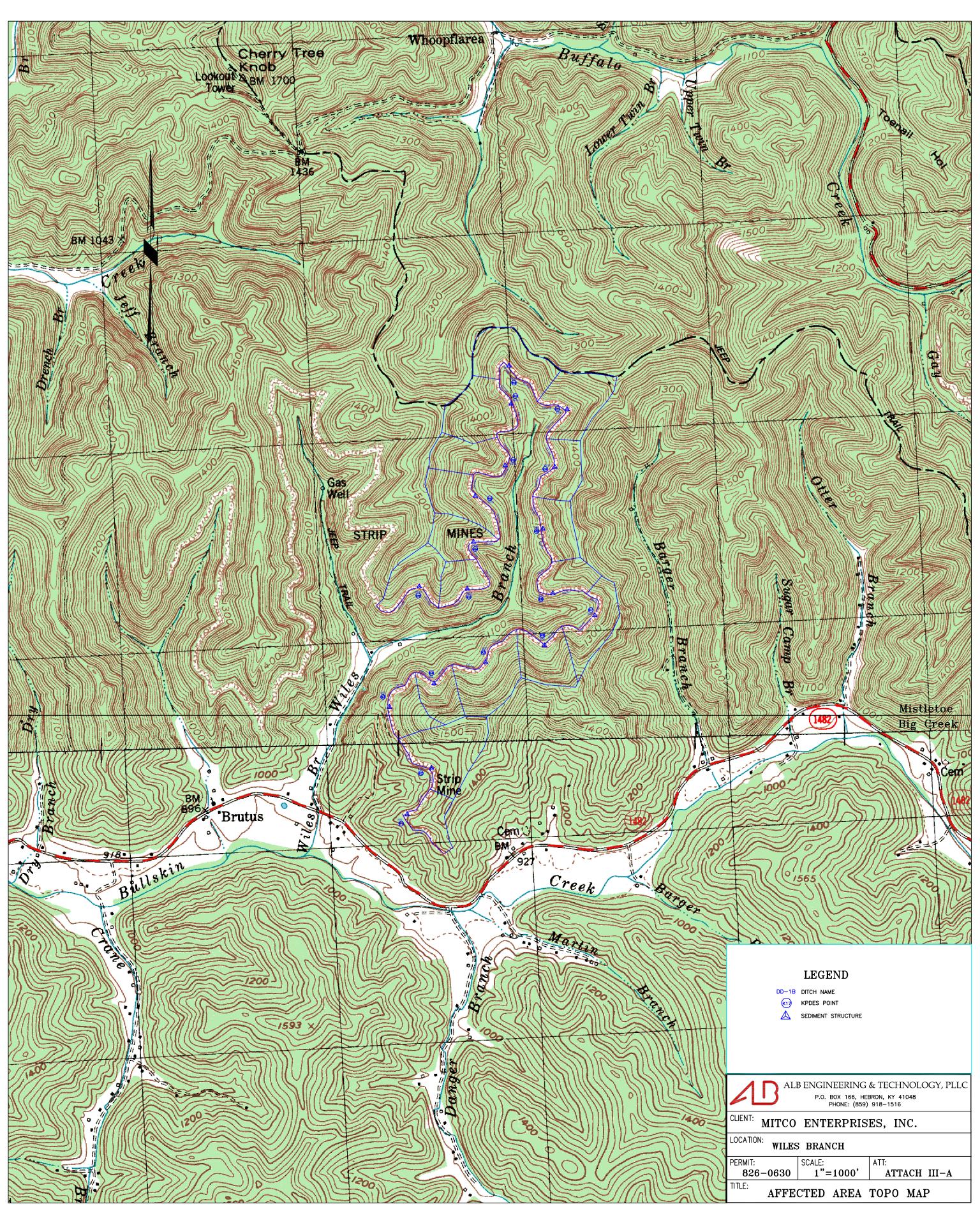
KPDES regulations require that a permit applicant pay an application filing fee equal to twenty percent of the permit base fee. Please examine the base and filing fees listed in "Form 1 Instructions" and enclose a check payable to "Kentucky State Treasurer" for the appropriate amount. For permit renewals, please include the KPDES permit number on the check to ensure proper crediting. Please see the separate document "General Instructions" for an expanded description of the base fee amounts.

Facility Fee Category:	Filing Fee Enclosed:
Surface Mining Operation	\$240
VIII. CERTIFICATION	

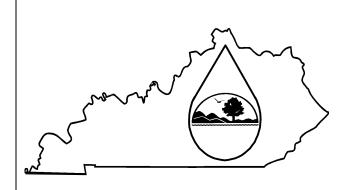
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE (type or print):	PHONE NUMBER: (606) 596-0111				
Mr. ⋈ Ms. ☐ Charlie Collins, President	EMAIL: ccollins@jadco-enterprises.com				
SIGNATURE	DATE:				
Chala Calli	12/09/2009				

Return completed application form and attachments to: Surface Water Permits Branch, Division of Water, 200 Fair Oaks Lane, Frankfort, KY 40601. Direct questions to: Surface Water Permits Branch at (502) 564-3410.



# **KPDES FORM C**



# KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

## PERMIT APPLICATION

A complete application consists of this form and Form 1. For additional information, contact Surface Water Permits Branch, (502) 564-3410.

Name of Facility: Mitco Enterprises, Inc.

County: Clay

AGENCY
USE

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

Outfall No.		LATITUDE		LONGITUDE			
(list)	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	RECEIVING WATER (name)
SS-001	37	14	49	83	34	59	Wiles Branch
SS-002	37	14	56	83	33	54	Wiles Branch
SS-003	37	15	06	83	33	02	Wiles Branch
SS-004	37	15	10	83	34	52	Wiles Branch
SS-005	37	15	13	83	33	42	Wiles Branch
SS-006	37	15	16	83	33	30	Wiles Branch
SS-007	37	15	20	83	33	20	Wiles Branch
SS-008	37	15	24	83	33	28	Wiles Branch
SS-009	37	15	34	83	33	30	Wiles Branch
SS-010	37	15	44	83	33	27	Wiles Branch
SS-011	37	15	53	83	33	25	Wiles Branch
SS-012	37	15	01	83	33	36	Wiles Branch
SS-013	37	15	54	83	33	36	Wiles Branch
SS-014	37	15	45	83	33	37	Wiles Branch
SS-015	37	15	40	83	33	43	Wiles Branch
SS-016	37	15	32	83	33	44	Wiles Branch
SS-017	37	15	25	83	33	46	Wiles Branch
SS-018	37	15	25	83	33	55	Wiles Branch

#### II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
- B. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

OUTFALL NO.	OPERATION(S) CONTRIBUTING FLOW		TREATMENT			
(list)	Operation (list)	Avg/Design Flow (include units)	Description	List Codes from Table C-1		
SS-001	Surface runoff	23.12 cfs (peak)	Sedimentation Discharge to surface water	1-U 4-A		
SS-002	Surface runoff	53.55 cfs (peak)	Sedimentation Discharge to surface water	1-U 4-A		
SS-003	Surface runoff	24.86 cfs (peak)	Sedimentation Discharge to surface water	1-U 4-A		
SS-004	Surface runoff	23.27 cfs (peak)	Sedimentation Discharge to surface water	1-U 4-A		
SS-005	Surface runoff	44.35 cfs (peak)	Sedimentation Discharge to surface water	1-U 4-A		
SS-006	Surface runoff	33.56 cfs (peak)	Sedimentation Discharge to surface water	1-U 4-A		
SS-007	Surface runoff	32.96 cfs (peak)	Sedimentation Discharge to surface water	1-U 4-A		
SS-008	Surface runoff	22.63 cfs (peak)	Sedimentation Discharge to surface water	1-U 4-A		
SS-009	Surface runoff	26.91 cfs (peak)	Sedimentation Discharge to surface water	1-U 4-A		
SS-010	Surface runoff	27.08 cfs (peak)	Sedimentation Discharge to surface water	1-U 4-A		
SS-011	Surface runoff	42.13 cfs (peak)	Sedimentation Discharge to surface water	1-U 4-A		
SS-012	Surface runoff	42.67 cfs (peak)	Sedimentation Discharge to surface water	1-U 4-A		
SS-013	Surface runoff	45.24 cfs (peak)	Sedimentation Discharge to surface water	1-U 4-A		
SS-014	Surface runoff	33.36 cfs (peak)	Sedimentation Discharge to surface water	1-U 4-A		
SS-015	Surface runoff	34.32 cfs (peak)	Sedimentation Discharge to surface water	1-U 4-A		
SS-016	Surface runoff	26.20 cfs (peak)	Sedimentation Discharge to surface water	1-U 4-A		
SS-017	Surface runoff	21.48 cfs (peak)	Sedimentation Discharge to surface water	1-U 4-A		
SS-018	Surface runoff	32.84 cfs (peak)	Sedimentation Discharge to surface water	1-U 4-A		
			<u>G</u>			

# II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

C.	Except for storm water	runoff, leaks, or	spills, are any of the	ne discharges des	scribed in Items I	I-A or B intern	nittent or seasonal?
----	------------------------	-------------------	------------------------	-------------------	--------------------	-----------------	----------------------

	es (Complete the following table.)	$\boxtimes$	No (Go to Section III.)
--	------------------------------------	-------------	-------------------------

OUTFALL	OPERATIONS	FREQU	ENCY	FLOW				
NUMBER	CONTRIBUTING	Days	Months	Flow Rate		Total	Duration	
	FLOW	Per Week	Per	(in n	ngd)	(specify v	vith units)	(in days)
			Year					
(list)	(list)	(specify	(specify	Long-Term	Maximum	Long-Term	Maximum	
		average)	average)	Average	Daily	Average	Daily	

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measures of operation)?

Yes (Complete Item III-B) List effluent guideline category:

**PRODUCTION** 

 $\boxtimes$ 

No (Go to Section IV)

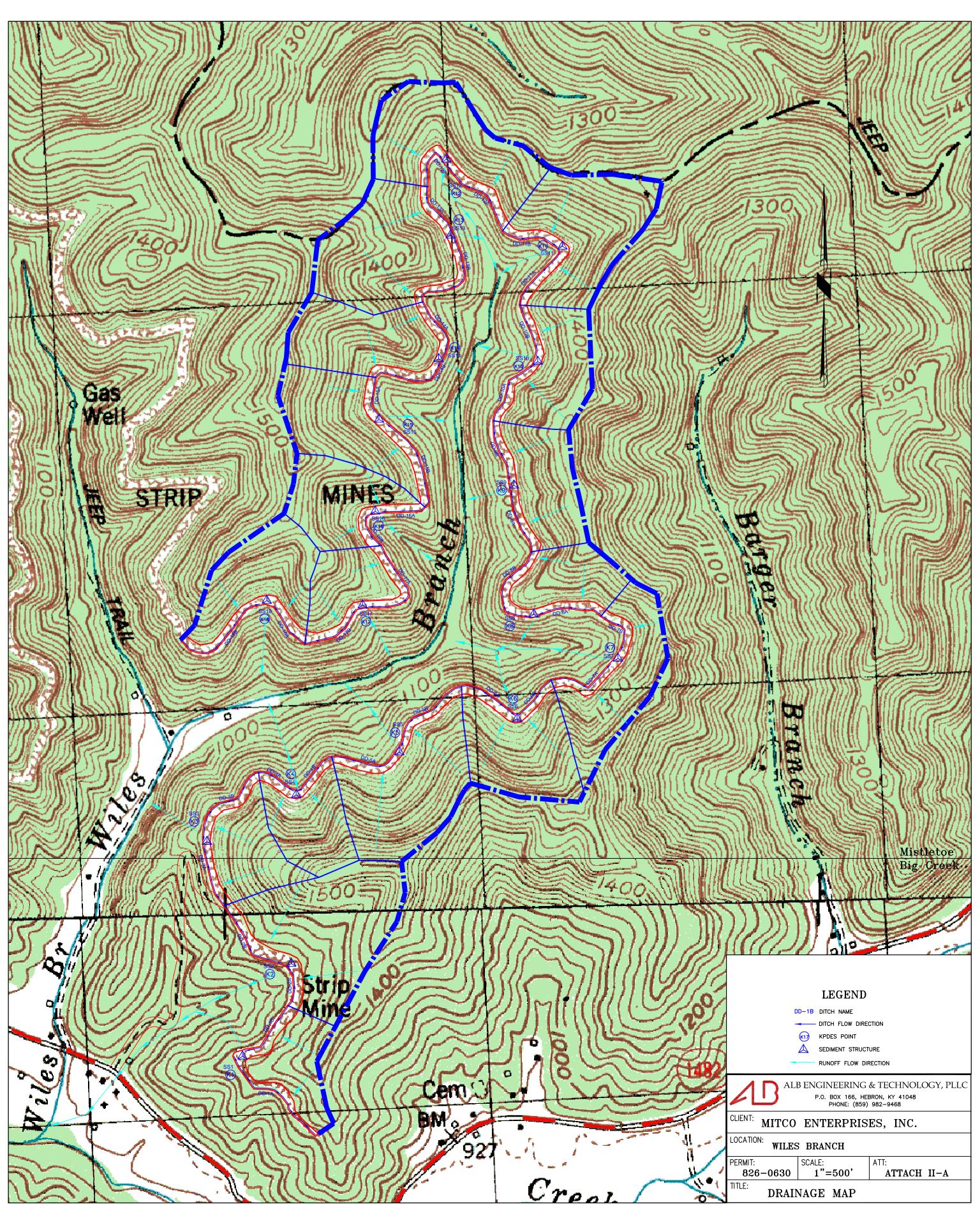
VI. POTENTIA	L DISCHARGES NOT COVERED BY A	NALYSIS						
A. Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?								
	Yes (List all such pollutants below)		No (Go to Item VI-	·B)				
L								
VII. BIOLOGI	CAL TOXICITY TESTING DATA							
	knowledge of or reason to believe that any bid receiving water in relation to your discharge			city has been made on any of your				
	Yes (Identify the test(s) and describe their pu	irposes below)	⊠ N	No (Go to Section VIII)				
YWY GOVERN CET AND YOUR ENDONG THOU								
VIII. CONTRACT ANALYSIS INFORMATION								
Were any of the a	nalyses reported in Item V performed by a co	ontract laboratory	or consulting firm?					
	Yes (list the name, address, and telephone nu analyzed by each such laboratory or firm		llutants	No (Go to Section IX)				

NAME	ADDRESS	TELEPHONE	POLLUTANTS
		(Area code & number)	ANALYZED (list)
			Total Suspended Solids
Appalachian State Analytical	181 Longview Drive	(606) 437-5616	Flow
	Pikeville, KY 41501		Conductivity
			pH
			Hardness (as mg/l CaCO <sub>3</sub> )
			Sulfate (as SO <sub>4</sub> )
			Total Recoverable Aluminum
			Total Recoverable Iron
			Total Recoverable Manganese
			Total Recoverable Antimony
			Total Recoverable Arsenic
			Total Recoverable Beryllium
			Total Recoverable Cadmium
			Total Recoverable Chromium
			Total Recoverable Copper
			Total Recoverable Lead
			Total Recoverable Mercury
			Total Recoverable Nickel
			Total Recoverable Selenium
			Total Recoverable Silver
			Total Recoverable Thallium
			Total Recoverable Zinc
			Free Cyanide
			Total Phenols

#### IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE (type or print):	TELEPHONE NUMBER (area code and number):
Charlie Collins, President	(606) 596-0110
SIGNATURE	DATE
Larlo Coll	12/09/2009



CUMENT ⋖

6.96

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

#### V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C) **OUTFALL NO.** Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details. 3. UNITS 4. INTAKE **EFFLUENT** (specify if blank) (optional) c. Long-Term Avg. Value 1. a. Maximum Daily Value b. Maximum 30-Day Value d. b. **POLLUTANT** (if available) Long-Term Avg. Value (if available) No. of Concentration Mass b. (1) (2) **(1)** (2) **(1)** (2) Analyses (1) **(2)** No of Concentration Concentration Mass Concentration Mass Concentration Mass Mass Analyses a. Biochemical Oxygen Demand (BOD) b. Chemical Oxygen Demand (COD) c. Total Organic Carbon (TOC) d. Total Suspended Solids (TSS) 6.0 mg/l e. Ammonia (as N) VALUE VALUE VALUE VALUE 0.258 f. Flow (in units MGD of MGD) VALUE VALUE VALUE VALUE g. Temperature °c (winter) VALUE VALUE VALUE VALUE °c h. Temperature (summer) MAXIMUM STANDARD UNITS MINIMUM MINIMUM MAXIMUM

Part B - In the MARK "X" column, place an "X" in the <u>Believed Present</u> column for each pollutant you know or have reason to believe is present. Place an "X" in the <u>Believed Absent</u> column for each pollutant you believe to be absent. If you mark the <u>Believed Present</u> column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

requirements.												1		
1.		2.				3.				4.		VA 1787	6. T. ( )	D.
POLLUTANT	MAR		- Maria D	1 X7-1		FLUENT	- T T			UNITS			E (option	
AND CAS NO.	a.	b.	a. Maximum Dai	iy value	b. Maximum 3 Value (if avail		c. Long-Tern Value (if ava	n Avg. ilabla)	d. No. of	a.	b.	a. Long-Term Value	Avg	b. No. of
(if available)	Believed	Believed	(1)	(2)	(1)	(2)	(1)	(2)	Analyses	Concentration	Mass	(1)	(2)	Analyses
(ii available)	Present	Absent	Concentration	Mass	Concentration	Mass	Concentration	Mass	rinaryses	Concentration	171433	Concentration	Mass	Maryses
a. Bromide														
(24959-67-9)		X												
b. Chloride		X												
c. Chlorine,														
Total Residual		X												
Residual		Λ												
d. Color		X												
e. Fecal														
Coliform		X												
Or E.coli														
f. Fluoride (16984-48-8)		X												
g. Hardness		Λ												
(as CaCO <sub>3</sub> )	X		65.2						1	mg/l				
h. Nitrate –														
Nitrite (as N)		X												
i. Nitrogen,														
Total Organic														
(as N)		X												
j. Oil and														
Grease		X												
k. Phosphorous														
(as P), Total 7723-14-0		X												
l. Radioactivity		Λ												
(1) Alpha,														
Total		X												
(2) Beta,														
Total		X												
(3) Radium		v												
Total (4) Radium,		X												
(4) Radium, 226, Total		X												
(5) Strontium-														
90, Total		X												
(6) Uranium								<u>-</u>						
		X												

rt B - Continue	ed													
1. OLLUTANT	2	2. K "X"			EF	3. FLUENT				4. UNITS		INTAK	5. KE (option	al)
nd CAS NO.	a.	b.	a. Maximum Dail		b. Maximum 3 Value (if avai	80-Day lable)	c. Long-Tern Value (if ava	ilable)	d. No. of	a.	b.	a. Long-Term Avg	g. Value	b. No. of
if available)	Believed Present	Believed Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses	Concentration	Mass	(1) Concentration	(2) Mass	Analyses
Sulfate (as SO <sub>4</sub> ) (14808-79-8)	X		6						1	mg/l				
Sulfide (as S)		X												
Sulfite (as SO <sub>4</sub> ) (14286-46-3)		X												
Surfactants		X												
Aluminum, Total (7429-90)	X		0.136						1	mg/l				
Barium, Total 7440-39-3)		X												
Boron, Total (7440-42-8)		X												
(7440-48-4)		X												
Iron, Total (7439-89-6)	X		<0.03						1	mg/l				
Magnesium Total (7439-96-4)		X												
Total (7439-98-7)		Х												
Total (7439-96-6)	X		0.01						1	mg/l				
(7440-31-5)		X												
Titanium, Total (7440-32-6)		X												
Cobalt, Total (7440-48-4) Iron, Total (7439-89-6) Magnesium Total (7439-96-4) Molybdenum Fotal (7439-98-7) Manganese, Total (7439-96-6) Tin, Total (7440-31-5) Titanium, Total		X X X							1					

Part C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the Testing Required column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Mark "X: in the Believed Absent column for each pollutant you believe to be absent. If you mark either the Testing Required or Believed Present columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

L	1.	ľ	2. MARK "X"				EFF	3. LUENT				4. UNITS		INTAK	5. E (optiona	1)
N	POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily		b. Maximum 3 Value (if avail	able)	c. Long-Term Value (if avail	able)	d. No. of	a. Concentration	b. Mass	a. Long-Term Av	g Value	b. No. of Analyses
3	(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
5	METALS, CYAN	NIDE AND T	OTAL PHE	NOLS												
	1M. Antimony															ı l
	Total			v	-0.002						1	71				ĺ
_	(7440-36-0) 2M. Arsenic,			X	<0.002						1	mg/l				
O	Total															
$\boldsymbol{\succ}$	(7440-38-2)			X	< 0.001						1	mg/l				
О	3M. Beryllium															
$\sim$	Total															
	(7440-41-7)			X	< 0.0002						1	mg/l				
	4M. Cadmium Total															
	(7440-43-9)			X	< 0.002						1	mg/l				
Ξ	5M. Chromium			71	10.002						-	1119/1				
	Total															
	(7440-43-9)			X	0.001						1	mg/l				
	6M. Copper															
	Total (7550-50-8)			X	0.001						1	m ~ /1				
-	7M. Lead			Λ	0.001						1	mg/l				
7	Total															i
J	(7439-92-1)			X	< 0.001						1	mg/l				ĺ
$\sim$	8M. Mercury															
	Total															i
a	(7439-97-6)			X	< 0.0002						1	mg/l				
	9M. Nickel, Total															ĺ
	(7440-02-0)			X	< 0.005						1	mg/l				ĺ
•	10M. Selenium,															
	Total															ĺ
d	(7782-49-2)			X	< 0.002						1	mg/l				
ш	11M. Silver,															
	Total			v	< 0.001						1	m ~ /1				l
	(7440-28-0)			X	<0.001						1	mg/l				1

D + G G -:															
Part C – Continu	ed	2					2							-	
1.	,	2. MARK "X"				EEE	3. LUENT				4. UNITS		INTAI	5. E (optiona	I)
POLLUTANT	1	VIAKK A				EFF	LUENI			1	UNITS			ь (ориона	1)
And CAS NO.	_	_	b.	_		b. Maximum 3	0 D	c. Long-Term	A		_	b.	a. Long-Term Av	- <b>V</b> /-1	b.
Allu CAS NO.	a. Testina	a. Deliaved	Believed	a. Marimum Daile	. Volue					d.	a. Concentration		Long-Term Av	g value	
(if available)	Testing	Believed Present	Absent	Maximum Daily		Value (if avail		Value (if avail		No. of	Concentration	Mass	(1)	(2)	No. of
(II available)	Required	Fresent	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	Analyses
					Mass	Concentration	Mass	Concentration	IVIASS				Concentration	IVIASS	
METALS, CYAN	IDE AND T	OTAL PHE	NOLS (Con	tinued)		ı	1	T	1	ı	T		I		ı
12M. Thallium,															
Total											_				
(7440-28-0)		X		< 0.0007						1	mg/l				
13M. Zinc,															
Total		37		0.005											
(7440-66-6)		X		0.005						1	mg/l				
14M. Cyanide,															
Total		N/		-0.004						1	n				
(57-12-5)		X		<0.004						1	mg/l				
15M. Phenols,															
Total		X		<0.004						1	/1				
DIOXIN		Λ		<0.004						1	mg/l				
		1	ı	DESCRIBE RES	TIT TO										
2,3,7,8 Tetra-				DESCRIBE RES	ULIS:										
chlorodibenzo,			X												
P, Dioxin (1784-01-6)			^												
GC/MS FRACTI	ON VOLA	THE COM	DOLINIDO												
GC/MS FRACTI	ON – VOLA	TILE COM	POUNDS		1	I	1		l	I			I		I
1V. Acrolein															
(107-02-8)			X												
2V.			Λ												
Acrylonitrile															
(107-13-1)			X												
3V. Benzene			Λ												
(71-43-2)			X												
5V. Bromoform			Λ												
(75-25-2)			X												
6V. Carbon			Λ												
Tetrachloride															
(56-23-5)			X												
7V. Chloro-			73		-										
benzene															
(108-90-7)			X												
8V.			71		-										
o v . Chlorodibro-															
momethane															
(124-48-1)			X												

	ed			•											
1.	,	2. MARK "X"				FFE	3. LUENT				4. UNITS		INTAK	5. E (optiona	.1\
POLLUTANT		VIAKK "A"				EFF	LUENI				UNIIS		a.	ь (ориона	b.
And CAS NO.	a.	a.	b.	a.		b. Maximum 3		c. Long-Term	Avg.	d.	a.	b.	Long-Term Av	g Value	No. of
(6 9 11)	Testing	Believed	Believed	Maximum Daily		Value (if avail		Value (if avail		No. of	Concentration	Mass			Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
9V.				Concentration	Mass	Concentration	Mass	Concentration	Mass				Concentration	Mass	
Chloroethane															
(74-00-3)			X												
10V. 2-Chloro-															
ethylvinyl Ether															
(110-75-8)			X												
11V. Chloroform															
(67-66-3)			X												
12V. Dichloro-			11				<u> </u>								
bromomethane															
(75-71-8)			X												
14V. 1,1-															
Dichloroethane															
(75-34-3)			X												
15V. 1,2-															
Dichloroethane (107-06-2)			X												
16V. 1,1-			71												
Dichlorethylene															
(75-35-4)			X												
17V. 1,2-Di-															
chloropropane			37												
(78-87-5) 18V. 1,3-			X												
Dichloropro-															
pylene			X												
(452-75-6)															
19V. Ethyl-															
benzene															
(100-41-4)			X												
20V. Methyl															
Duomido			X												
Bromide (74-83-9)			2 <b>1</b>												

2. MARK "X"  a. Believed Present	b. Believed Absent	a. Maximum Dail (1) Concentration	y Value (2) Mass	b. Maximum 3 Value (if avail (1) Concentration		c. Long-Term Value (if avail (1) Concentration	Avg. able) (2) Mass	d. No. of Analyses	4. UNITS a. Concentration	b. Mass	INTAK a. Long-Term Avg  (1) Concentration	5. E (optiona g. Value (2) Mass	b. No. of Analyses
a. Believed	Absent X	Maximum Daily (1)	(2)	b. Maximum 3 Value (if avail	0-Day lable) (2)	Value (if avail	able) (2)	No. of	a.		a. Long-Term Avg	g. Value	b. No. of
Believed	Absent X	Maximum Daily (1)	(2)	Value (if avail	(2)	Value (if avail	able) (2)	No. of			(1)	(2)	
Present	X	(1)	(2)	(1) Concentration		(1)	(2)	Analyses			(1) Concentration		
				İ									
	X												
	X				Į.								
	X												
-	71												
	37												
	X												
			+	<del> </del>	<del>                                     </del>								
	X												
	X												
	71												
	X		<u> </u>		<u> </u>								
	X												
	• •												
	X		<del>                                     </del>	<del>                                     </del>	-								
	X												
		Х	X X X	x	x	X X X X	x	x	x	x			

Part C – Continu	ed														
		2.					3.				4.			5.	
1.	1	MARK "X"				EFF	LUENT				UNITS		INTAK	E (optiona	
POLLUTANT			_							_		_	a.		<b>b.</b>
And CAS NO.	a.	a.	b.	a. Maximum Daily	X7.1	b. Maximum 3		c. Long-Term		d.	a.	b.	Long-Term Av	g Value	No. of
(if available)	Testing Required	Believed Present	Believed Absent	(1)	(2)	Value (if avail	(2)	Value (if avail (1)	(2)	No. of Analyses	Concentration	Mass	(1)	(2)	Analyses
(ii availabic)	Requireu	1 i esciit	Absent	Concentration	Mass	Concentration	Mass	Concentration	Mass	Analyses			Concentration	Mass	
GC/MS FRACTI	ON – ACID	COMPOUN	DS						2.2000					2.2000	
1A. 2-Chloro-															
phenol															
(95-57-8)			X												
2A. 2,4- Dichlor-															
Orophenol			X												
(120-83-2)			Λ												
3A.															
2,4-Dimeth-															
ylphenol			X												
(105-67-9)															
4A. 4,6-Dinitro-															
o-cresol (534-52-1)			X												
5A. 2,4-Dinitro-			Λ												
phenol															
(51-28-5)			X												
6A. 2-Nitro-															
phenol															
(88-75-5)			X												
7A. 4-Nitro- phenol															
(100-02-7)			X												
8A. P-chloro-m-			A												
cresol															
(59-50-7)			X												
9A.															
Pentachloro-															
phenol (87-88-5)			X												
(87-88-3)															
10A. Phenol															
(108-05-2)			X												
11A. 2,4,6-Tri-															
chlorophenol															
(88-06-2)			X												
GC/MS FRACTI	ON – BASE/	NEUTRAL	COMPOUN	DS	ı	T	ı				T		T		
1B. Acena-															
phthene (83-32-9)			X												

**DOCUMENT** 

Part C – Continu	ed														
Ture Continu		2.					3.				4.			5.	
1.	1	MARK "X"				EFF	LUENT				UNITS		INTAK	E (optiona	
POLLUTANT							0 P	<b>T</b> (T)					a.	<b>X</b> 7 1	b.
And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily	v Value	b. Maximum 3 Value (if avail		c. Long-Term Value (if avail		d. No. of	a. Concentration	b. Mass	Long-Term Av	g Value	No. of Analyses
(if available)	Required	Present	Absent	(1)	(2)	(1)	(2)	(1)	(2)	Analyses	Concentration	Mass	(1)	(2)	Allalyses
	•			Concentration	Mass	Concentration	Mass	Concentration	Mass				Concentration	Mass	
GC/MS FRACTI	ON – BASE/	NEUTRAL	COMPOUN	DS (Continued)											
2B. Acena-															1
phtylene			v												1
(208-96-8) 3B. Anthra-			X		1				1						
cene															1
(120-12-7)			X												
4B.															
Benzidine															
(92-87-5)			X												<b> </b>
5B. Benzo(a)- anthracene															1
(56-55-3)			X												i
6B. Benzo(a)-			71												
pyrene															1
(50-32-8)			X												
7B. 3,4-Benzo-															1
fluoranthene (205-99-2)			X												1
8B. Benzo(ghl)			Λ												
perylene															1
(191-24-2)			X												1
9B. Benzo(k)-															
fluoranthene															1
(207-08-9) 10B. Bis(2-			X												<del>                                     </del>
chlor-															1
oethoxy)-			X												1
methane															1
(111-91-1)															
11B. Bis															
(2-chlor-			v												
oisopropyl)- Ether			X												
12B. Bis															
(2-ethyl-															
hexyl)-			X												
phthalate															
(117-81-7)															i

Part C – Continu	ed														
		2.					3.				4.			5.	
1.	I	MARK "X"				EFF	LUENT				UNITS			E (optiona	
POLLUTANT And CAS NO.			ь.			b. Maximum 3	0 Dov	c. Long-Term	A ===	a		ь.	a. Long-Term Av	a Volue	b. No. of
Allu CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily	, Value	Value (if avail		Value (if avail	l Avg. lable)	d. No. of	a. Concentration	b. Mass	Long-Term Av	g value	Analyses
(if available)	Required	Present	Absent	(1)	(2)	(1)	(2)	(1)	(2)	Analyses	Concentration	Mass	(1)	(2)	Allalyses
(==,)	110quii vu	11050110	11000110	Concentration	Mass	Concentration	Mass	Concentration	Mass	111111J Ses			Concentration	Mass	
GC/MS FRACTI	ON – BASE/	NEUTRAL	COMPOUN												
13B. 4-Bromo-															
phenyl															
Phenyl ether			X												
(101-55-3)															
14B. Butyl-															
benzyl phthalate			X												
(85-68-7)			Λ												
15B. 2-Chloro-															
naphthalene															
(7005-72-3)			X												
16B. 4-Chloro-															
phenyl															
phenyl ether			X												
(7005-72-3)															
17B. Chrysene															
(218-01-9)			X												
18B. Dibenzo-															
(a,h)															
Anthracene			X												
(53-70-3)															
19B. 1,2-															
Dichloro-			X												
benzene (95-50-1)			Λ												
20B. 1,3-															
Dichloro-															
Benzene			X												
(541-73-1)															
21B. 1,4-															
Dichloro-			77												
benzene			X												
(106-46-7) 22B. 3,3-															
Dichloro-															
benzidene			X												
(91-94-1)															
23B. Diethyl															
Phthalate															
(84-66-2)			X												

	Part C – Continu	ed														
	_		2.					3.				4.			5.	
	1. POLLUTANT		MARK "X"				EFF.	LUENT				UNITS			E (optiona	
	And CAS NO.	a.	a.	b.	a.		b. Maximum 3	0-Day	c. Long-Term	Δνσ	d.	a.	b.	a. Long-Term Avg	v Value	b. No. of
	rina Cris ivo.	Testing	Believed	Believed	Maximum Daily	Value	Value (if avail		Value (if avail	lable)	No. of	Concentration	Mass	Long-Term Avg	s. value	Analyses
	(if available)	Required	Present	Absent	(1)	(2)	(1)	(2)	(1)	(2)	Analyses			(1)	(2)	
					Concentration	Mass	Concentration	Mass	Concentration	Mass				Concentration	Mass	
	GC/MS FRACTI	ON – BASE/I	NEUTRAL	COMPOUN	DS (Continued)	1	1						1			
П	24B. Dimethyl Phthalate															
	(131-11-3)			X												
5	25B. Di-N-															
	butyl Phthalate															
	(84-74-2)			X												
	26B. 2,4-Dinitro-															
	2,4-Dinitro- toluene			X												
	(121-14-2)			<b>11</b>												
	27B.															
	2,6-Dinitro-															
	toluene			X												
	(606-20-2) 28B. Di-n-octyl															<u> </u>
•	Phthalate															
••	(117-84-0)			X												
	29B. 1,2-															
	diphenyl-															
	hydrazine (as			X												
	azonbenzene) (122-66-7)															
	30B.															
	Fluoranthene															
	(208-44-0)			X												
~																
	31B. Fluorene (86-73-7)			X												
	32B.			Λ												
	Hexachloro-															
	benzene			X												
3	(118-71-1)															
	33B.															
	Hexachloro- butadiene			X												
ПП	(87-68-3)			Λ												
	34B.															
	Hexachloro-															
	cyclopenta-			X												
	diene (77-47-4)															
	(11-41-4)									<u> </u>						

Part C – Continued															
1.	1	2. MARK "X"				EFF	3. LUENT				4. UNITS		INTAK	5. E (optiona	al)
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily	Value	b. Maximum 3 Value (if avai	0-Day	c. Long-Term Value (if avail		d. No. of	a. Concentration	b. Mass	a. Long-Term Av		b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
GC/MS FRACTI	ON – BASE/	NEUTRAL	COMPOUN	DS (Continued)		1									L
35B. Hexachloroethane															
(67-72-1)			X												<b>_</b>
36B. Indneo- (1,2,3-oc)-															
Pyrene (193-39-5)			X												_
37B. Isophorone (78-59-1)			X												
38B.			Λ												
Napthalene (91-20-3)			X												
39B.															
Nitro- benzene (98-95-3)			X												
40B. N-Nitroso- dimethyl- amine (62-75-9)			X												
41B. N-nitrosodi-n- propylamine (621-64-7)			X												
42B. N-nitro- sodiphenyl- amine (86-30-6)			X												
43B. Phenan- threne (85-01-8)			X												
44B. Pyrene (129-00-0)			X												
45B. 1,2,4 Tri- chloro- benzene (120-82-1)			х												

Part C – Continued															
Part C - Continu	ea	2.					•				4			5.	
1. MARK "X"			3. EFFLUENT						4. UNITS		INTAKE (optional)		d)		
POLLUTANT And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Daily	<b>Value</b>	b. Maximum 3 Value (if avail	0-Day able)	c. Long-Term Value (if avail	Avg. lable)	d. No. of	a. Concentration	b. Mass	a. Long-Term Avg. Value		b. No. of Analyses
(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
GC/MS FRACTI	ON – PESTI	CIDES		Concentration	171455	Concentration	171433	Concentration	111433				Concentration	171433	
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (58-89-9)			X												
4P. gamma-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α- Endosulfan (115-29-7)			X												
12P. β- Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												

	Part C – Continu															
	1	2. MARK "X"					Talala	3. LUENT				4. UNITS		5. INTAKE (optional)		
	1. POLLUTANT		WARK "X"				EFF	LUENI				UNIIS		a.		b.
_	And CAS NO.	a. Testing	a. Believed	b. Believed	a. Maximum Dail	y Value	b. Maximum 3 Value (if avai		c. Long-Term Value (if avail		d. No. of	a. Concentration	b. Mass	Long-Term Av	g Value	No. of Analyses
_	(if available)	Required	Present	Absent	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	Analyses			(1) Concentration	(2) Mass	
z	GC/MS FRACT	ION – PESTI	CIDES		0011001111111011	1.2455		1,24,55	0011001101111011	112400				Concentration	112400	
_	15P. Endrin															
ш	Aldehyde (7421-93-4)			X												
1	(7421-93-4)			Λ												
_	16P Heptachlor															
1	(76-44-8)			X												
_	17P. Heptaclor															
U	Epoxide (1024-57-3)			X												
_																
0	18P. PCB-1242															
	(53469-21-9)			X												
Δ	19P. PCB-1254															
	(11097-69-1)			X												
ш																
_	20P. PCB-1221 (11104-28-2)			X												
•	(11104-26-2)			Λ												
_	21P. PCB-1232															
_	(11141-16-5)			X												
ᆂ	22P. PCB-1248															
$\overline{\mathbf{o}}$	(12672-29-6)			X												
u																
~	23P. PCB-1260															
<u> </u>	(11096-82-5)			X												
◂	24P. PCB-1016															
	(12674-11-2)			X												
	25P. Toxaphene (8001-35-2)			X												
Δ	(0001-33-4)	<u> </u>	<u> </u>	Λ		1		1	1	1	<u> </u>			I	<u> </u>	1
Ш																
S																
ns																



PO Box 520 Shelbiana, KY 41562

Delta Testing Inc

PO Box 1711 Hyden, KY 41749 ATTN: Joe Lewis Date Received

3/05/10 3/18/10

Date Reported Order Number 2010-02447

TEST DESCRIPTION	RESULT	UNITS	METHOD	MDL	DATE	TECH
	0-02447001 tco-Wiles Br.		<b>894</b> -0622			*
Date Sampled 3/0	4/2010					
Flow pH, Field Aluminum, Total Recover Iron, Total Recoverable Manganese, Total Recover Arsenic, Total Recoverab Beryllium, Total Recovera Cadmium, Total Recovera Chromium, Total Recovera Chromium, Total Recoverable Lead, Total Recoverable Mercury, Total Recoverable Mercury, Total Recoverable Selenium, Total Recoverable Selenium, Total Recoverable Thallium, Total Recoverable Thallium, Total Recoverable Thallium, Total Recoverable Free Cyanide Phenols, Ky KPDES P Retemperature	<ul> <li>&lt; 0.03</li> <li>rabl</li> <li>0.01</li> <li>able</li> <li>&lt; 0.002</li> <li>e</li> <li>&lt; 0.0002</li> <li>ble</li> <li>&lt; 0.002</li> <li>rable</li> <li>&lt; 0.001</li> <li>e</li> <li>&lt; 0.001</li> <li>&lt; 0.001</li> <li>&lt; 0.0002</li> <li>&lt; 0.0005</li> <li>ble</li> <li>&lt; 0.0007</li> <li>0.005</li> <li>&lt; 0.004</li> </ul>	mgd std mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l	SM 4500 H+ -B SM 3113 B SM 3111 B SM 3111 B SM 3113 B SM 3111 B SM 4500CN-E EPA 420.1, Hach 8047 SM 2550 B	0.03 0.002 0.03 0.01 0.002 0.001 0.0002 0.001 0.001 0.005 0.002 0.005 0.002 0.001 0.0007 0.005 0.004 0.004	3/04/2010 3/04/2010 3/15/2010 3/08/2010 3/10/2010 3/12/2010 3/16/2010 3/08/2010 3/15/2010 3/08/2010 3/10/2010 3/16/2010 3/10/2010 3/10/2010 3/10/2010 3/10/2010 3/10/2010 3/10/2010 3/10/2010 3/10/2010 3/10/2010 3/10/2010	CLT     LMS     SJ     LMS     SJ     SJ     SJ     SJ     LMS     LMS     LMS     LMS     LMS     LMS     LMS     LMS     CSJ     SJ     SJ     SJ     AH     SC

<sup>\*</sup> May not be within monthly permit requirements.

Submitted By:

# DELTA TESTING, INC

BOX 1711 HYDEN, KY. 41749 (606)672-3452

Sample Type Surface Water-Grab sample

AREA:

Wiles Br. Clay Co-MITCO JOB #826-0622

COMPANY:

B&W RESOURCE

SAMPLE#

SWZ

Date Sampled

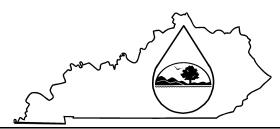
3-4-2010

Lat/Long 37 15 07 / 83 34 10

			Method	MDL
Flow	0.3990	OFS	Volumetric	N/L
Conductance	166	Uhoms/cm	SM2510-B	N/L
Section 1	6.96		SI/14500-H	N/L
Acidity	0	mg/l	SN12310-B	N/L
Alkalinity	dones	mg/l	SIV12320-B	$\hbar l/L$
Company of the Compan	6	mg/l	SIVI2540-D	N/L
Sulfate	6	mg/l	SM4500-SO4-E	1mg/l
Hardness	65.2	mg/l	SM2340-B	N/L

N/L-Not Listed

Analysis in accordance with "Standard Methods for the Analysis of Water and Wastewater"



# **Kentucky Pollutant Discharge Elimination System (KPDES)**

# Socioeconomic Demonstration and Alternatives Analysis

The Antidegradation Implementation Procedure found in 401 KAR 10:030, Section 1(3)(b)3 requires KPDES permit applications for new or expanded discharges to waters categorized as "Exceptional or High Quality Waters" to conduct a socioeconomic demonstration and alternatives analysis to justify the necessity of lowering local water quality to accommodate important economic or social development in the area in which the water is located. This demonstration shall include this completed form and copies of any engineering reports, economic feasibility studies, or other supporting documentation

# I. Project Information

Facility Name: Mitco Enterprise, Inc.

Location: 19485 South Highway 66, Beverly, KY 40913 County: Clay

Receiving Waters Impacted: Wiles Branch of Bullskin Creek

#### II. Socioeconomic Demonstration

#### 1. Define the boundaries of the affected community:

(Specify the geographic region the proposed project is expected to affect. Include name all cities, towns, and counties. This geographic region must include the proposed receiving water.)

The proposed project utilizes existing bench to highwall mine the Hazard #4 seam at elevation of 1220' with the DNR permit No. 826-0630. The permit affects 36.58 surface acres and 244.38 underground acres with the total permit acreage of 280.96. The mine site is located 0.3 mile east of the community of Brutus on KY 1482 in Clay county. The Latitude and Longitude is 37-14-48 and 83-34-11, respectively; it is located within the Mistletoe and Big Creek 7.5 minute quadrangles. The nearest receiving stream is Wiles Branch which flows into the Bullskin Creek of the South Fork Kentucky River.

# 2. The effect on employment in the affected community:

(Compare current unemployment rates in the affected community to current state and national unemployment rates. Discuss how the proposed project will positively or negatively impact those rates, including quantifying the number of jobs created and/or continued and the quality of those jobs.)

As shown in the following table, the unemployment rate of October, 2009 in Clay county is 13.8%, which is a 34% increase from 2008 unemployment rate of 10.3%. The unemployment rate in Clay county is generally higher than the labor market area.

The proposed mining operation will directly provide high-pay jobs for at least 15 people on site during the life of the operation and indirectly support 25 employees who work in the mining supporting industries, such as material and equipment supply company, as well as other services, such as engineering consulting, training, state regulatory agent and permit reviewers.

With the current tough economic situation nationwide, job creation is the highest priority of government task.

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This new mine will provide a precious opportunity for job-seekers, or at the very least, it will avoid an increase in unemployment rate by continually employing 10 workers and indirectly supporting 20 employees in other industries.

# **Civilian Labor Force**

	Clay C	County	Labor Market	Area
	2008	Oct. 2009	2008	Oct. 2009
Civilian Labor Force	6,862	6,874	98,775	99,815
Employed	6,153	5,928	91,125	87,751
Unemployed	709	946	7,650	12,064
Unemployment Rate (%)	10.3	13.8	7.7	12.1

Source: U.S. Department of Labor, Bureau of Labor Statistics.

#### II. Socioeconomic Demonstration- continued

#### 3. The effect on median household income levels in the affected community:

(Compare current median household income levels with projected median household income levels. Discuss how proposed project will positively or negatively impact the median household income in the affected community including the number of households expected to be impacted within the affected community.)

As shown in the following table, the average weekly wage of all industries is \$597 in Clay county in 2008 while the statewide average number is \$720. Mining is the highest pay job in Kentucky; its average weekly wage is \$1,179 in 2008. The average weekly wage in the mining industry in Kentucky is approximately 64% higher compared to the average weekly wage for all industries. Creation of higher-paying jobs will definitely result in the increase of median household income level in the affected community. On the other hand, loss of these jobs would dramatically impact affected employees' household income and their daily life.

Average Weekly Wage, 2008

	Clay County	Kentucky (Statewide)	U.S.	Ohio
All Industries	\$597	\$720	\$876	\$784
Agriculture, Forestry, Fishing and Hunting	0	571	502	493
Mining	0	1,179	1,676	1,166
Construction	731	807	940	887
Manufacturing	449	915	1,047	998
Trade, Transportation, and Utilities	423	665	751	698
Information	393	770	1,324	977
Financial Activities	619	937	1,422	1,023
Services	536	631	781	702
Public Administration	909	794	1,014	969
Other	N/A	869	889	604

Source: U.S. Department of Labor, Bureau of Labor Statistics.

# 4. The effect on tax revenues of the affected community:

(Compare current tax revenues of the affected community with the projected increase in tax revenues generated by the proposed project. Discuss the positive and negative social and economic impacts on the affected community by the projected increase.)

It is anticipated that the mine operation will produce a total of 708,000 tons of clean coal. This will generate a gross income of \$35, 400, 000 if the coal price is at \$50 per ton. The state coal severance and processing tax revenue will be approximately \$1,593,000. The Federal excise tax and OSM reclamation tax will be approximately \$389,400 and \$223,020, respectively. The personal income tax paid to federal, state and local will be approximately \$120,000 annually if 15 employees are hired at an average annual salary of \$40,000 and an average income tax rate of 20%. The total direct tax revenue to the local, state and federal is \$2,325,420. Additional tax revenue will be produced by local businesses, through increased employment to handle support services catering to the mining operation directly and to the needs of the employees on a daily basis. Local income taxes, property taxes, and sales taxes will also add to revenue brought in by the mining facility.

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#### II. Socioeconomic Demonstration- continued

### 5. The effect on an existing environmental or public health in affected community:

(Discuss how the proposed project will have a positive or negative impact on an existing environmental or public health.)

The permit area is pre-law mined land; 33.6 acres of bench area was abandoned mined land without proper reclamation. After mining is completed, the area will be reclaimed according to regulatory requirement. Species indigenous to the area will be planted to establish adequate vegetation cover. Such reclamation will minimize soil erosion and enhance the habitat for aquatic species and wildlife. Sediment ponds will remain during reclamation until bond release. The tax revenue paid to state and federal can be used for environmental protection program such as sewage disposal, sanitation and solid waste disposal, which will have beneficial effects on the existing environment.

### 6. Discuss any other economic or social benefit to the affected community:

(Discuss any positive or negative impact on the economy of the affected community including direct and or indirect benefits that could occur as a result of the project. Discuss any positive or negative impact on the social benefits to the community including direct and indirect benefits that could occur as a result of the project.)

This project will directly provide higher-than-average income and benefits for at least 15 employees. As a result of this project, 20 employees would be indirectly created or supported in engineering consulting, equipment sales and repair, and fuel/ transportation providers. The continuation of these jobs will lessen government unemployment benefits payout and positively affect the housing market crisis in this tough economic recession. The operating of coal mining and continuation of employment will help the local residents' view on current economic condition and encourage spending. This will encourage creating more jobs in the service area. Thus additional revenue can be created by the businesses and more taxes can be collected by local, state and federal government.

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## III. Alternative Analysis

#### 1. Pollution prevention measures:

(Discuss the pollution prevention measures evaluated including the feasibility of those measures and the cost. Measures to be addressed include but are not limited to changes in processes, source reductions or substitution with less toxic substances. Indicate which measures are to be implemented.)

This project proposes to use 18 bench sediment ponds to collect runoff from the disturbed area. The wastewater from mining operation will be settled by gravity in the ponds and discharged at required water quality standard. The ponds are designed and will be constructed to meet the effluent requirement.

The nearest wastewater treatment plant to the mine site is in Littleton north of Manchester, which is about 23 miles away. Using truck to transport the waste water to the sewer plant for treatment would incur a great amount of transportation cost; it also reduces the water flow to the Wiles Branch. Much larger ponds would be needed to detain the storm water for delivery. Due to the limited bench width, ponds will have to be built at off-bench sites which would disturb more forest land and create additional pollutions. It is obvious a large amount of additional cost would be needed for this option.

Avoiding this project would produce no additional pollution from this site. However, the abandoned pre-law mined land would not be properly reclaimed and provided long-term positive impact for habitat. Moreover, the local, state, and federal tax revenue of \$2,325,420 would not be realized and the 15 local jobs would be lost. Mining supporting and local service business would not prosper to the same extent.

#### 2. The use of best management practices to minimize impacts:

(Discuss the consideration and use of best management practices that will assist in minimizing impacts to water quality from the proposed permitted activity.)

Sediment ponds designed to accommodate a 25 year 24 hour storm event are the main method for wastewater treatment. BMPs recommended by Division of Mine Permit will also be utilized to aid in sediment control during the construction of sediment ponds and at any off-permit disturbance areas. The following BMPs are recommended by the Division, which may include but are not limited to, any of the following, singly of in combination:

- 1). Basin
- 2). Diversion ditches
- 3). Filter strips
- 4). Land grading and reshaping
- 5). Maintenance of a 100' buffer zone along streams
- 6). Minimization of surface disturbance
- 7). Mulching
- 8). Placement of rip-rap
- 9). Rapid revegetation, especially along stream banks
- 10). Rock check dams
- 11). Silt fence
- 12). Straw bale barriers
- 13). Stream bank stabilization
- 14). Sumps
- 15). Work in periods of no or low flow or dry weather

The BMPs of 2), 4), 6), 7), 8), 11), 12), and 15) will be utilized in this mining application.

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## 3. Recycle or reuse of wastewater, waste by-products, or production materials and fluids:

(Discuss the potential recycle or reuse opportunities evaluated including the feasibility of implementation and the costs. Indicate which of, of these opportunities are to be implemented)

Some water can be used for dust suppression on road, bench, stockpile, or highwall face in mining operations during dry days and some can be used for hydro-seeding when grade work is completed. During a storm event, the storm run off fills up the ponds then settled water is discharged through spillway to stream. The ponds normally do not have discharge in dry days unless snow melting water flows into the ponds. All the ponds are designed to have a minimum one feet to maximum 5 feet between spillway level and the sediment pool level. This stored water can be pumped into water truck and used for dust control purpose or for hydro-seeding purpose.

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## III. Alternative Analysis - continued

#### 4. Application of water conservation methods:

(Discuss the potential water conservation opportunities evaluated including the feasibility of implementation and the costs. Indicate which of, of these opportunities are to be implemented)

No outsourced water is needed for this surface mining operation. Naturally occurred storm/snow water is collected through diversion ditches by sediment control ponds where solids settling occurs and treated water is discharged at a 24 hour arithmetic average settleable concentration of 0.5 ml/l or less. A very small portion of a storm event rainfall is retained in the pond, which can be used for dust suppression, hydro-seeding, or watering of reclaimed land. The water discharge from this operation is only naturally occurred water.

## 5 Alternative or enhanced treatment technology:

(Compare feasibility and costs of proposed treatment with the feasibility and costs of alternative or enhanced treatment technologies that may result in more complete pollutant removal. Describe each candidate technology including the efficiency and reliability in pollutant removal and the capital and operational costs to implement those candidate technologies. Justify the selection of the proposed treatment technology.)

The following alternatives for water treatment are evaluated:

Water Treatment Facility: Construction of a small water treatment facility (500,000 gallons per day) on the project site would cost over \$1.6 million dollars, plus an additional cost of approximately \$50,000 for a containment reservoir. The peak discharge from the pond in this mine site ranges from 21.5 cfs to 53.6 cfs (i.e., 13.9 to 34.6 million gallons per day). This small water treatment facility would not be able to manage this amount of flow, thus either a larger water treatment plant or a larger storage pond is required for this option. The additional cost for a larger water plant or a storage pond would cost more than \$2 millions.

**Silt Fences and Straw Bales:** Silt fence and straw bale barriers is one of the BMPs recommended by the Division of Mine Permit for controlling sediment of small discharges. This alternative would not be adequate for the discharge flow from each subwatershed a bench pond located.

Chemical Treatment: Flocculants and coagulants may enhance the settling of solids and ions in the wastewater from the mine site. This chemical treatment may reduce the pond size, but it requires additional costs for the chemicals and equipment used to prepare and store the chemical solution. Due to the fact that storm water comes as an event not a continuous operation. This option is very difficult in operational management. The chemical residue in the discharge may also negatively impact the aquatic communities downstream,

**Wetland:** Wetlands have traditionally been used for biological treatment and are not effective for treating sediment. Additionally, wetlands used for water treatment would require additional nearly flat land which is not available in this project area. The location of the wetland has to take consideration of the entire permit area.

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## III. Alternative Analysis - continued

#### 6. Improved operation and maintenance of existing treatment systems:

(Discuss improvements in the operation and maintenance of any available existing treatment system that could accept the wastewater. Compare the feasibility and costs of improving an existing system with the feasibility and cost of the proposed treatment system.)

The proposed mine site is pre-law abandoned mined land. Strom water runoff from this site is naturally drained to the Wiles Branch without any man-made treatment. No any existing wastewater treatment facility can be used for water treatment. The proposed bench sediment control pond for water treatment is the feasible and practicable way.

# 7. Seasonal or controlled discharge options:

(Discuss the potential of retaining generated wastewaters for controlled releases under optimal conditions, i.e. during periods when the receiving water has greater assimilative capacity. Compare the feasibility and cost of such a management technique with the feasibility and cost of the proposed treatment system.)

The wastewater generated in the mine site is the storm water runoff from the disturbed area. The amount of water discharge is natural and seasonal. Controlling of this discharge will change the natural course of the stream downhill. However, it is possible to collect the runoff and discharge it at a controlled manner. Besides the bench ponds designed, a large detention pond would have to be placed in the Wiles Branch near the dwelling #14 to collect and detain the discharges from bench pond SS4 to SS18, and a second detention pond would need to be placed near the gas well south of the existing road A to collect and detain the discharges from pond SS1 to SS3. The engineering, construction and maintenance of these two detention ponds would cost millions. The two detention ponds will also very negatively impacts the Wiles Branch and downstream aquatic communities and posts safety hazards to local residents and wildlife habitat.

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Name and Title:

Signature:

III.	III. Alternative Analysis - continued								
	Land application or infiltration or disposal via an Underground Injection Control Well (Discuss the potential of utilizing a spray field or an Underground Injection Control Well for shallow or deep well disposal. Compare the feasibility and costs of such treatment techniques with the feasibility and costs of .propose treatment system.)								
	There is no abandoned underground mine near the proposed mine site, so the option of underground injection control well is not feasible.								
	Discharge to other treatment systems (Discuss the availability of either public or private treatments systems with sufficient hydrologic capacity and sophistication to treat the wastewaters generated by this project. Compare the feasibility and costs of such options with the feasibility and costs of the proposed treatment system.)								
	The nearest wastewater treatment plant to the mine site is in Littleton north of Manchester, which is about 23 miles away. Using truck to transport the waste water to the sewer plant for treatment would incur a great amount of transportation cost; it also reduces the water flow to the Wiles Branch. Much larger ponds would be needed to detain the storm water for delivery. Due to the limited bench width, ponds will have to be built at off-bench sites which would disturb more forest land and create additional pollutions. It is obvious a large amount of additional cost would be needed for this option.								
supe subn gathe awar	<b>Certification:</b> I certify under penalty of law that this document and all attachments were prepared under my direction or ervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information mitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for wing violations.								

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Telephone No.:

Date:

) -

# Kentucky Pollutant Discharge Elimination System (KPDES) Instructions KPDES Permit Application Supplemental Information

#### SECTION I - PROJECT INFORMATION

**Facility Name:** Provide the name of the facility

**Location:** Provide the physical location of the proposed project **County:** Indicate the county in which the facility is located

**Receiving Water Name:** Indicate the water body into which the facility discharges or plans to discharge.

#### **SECTION II – Socioeconomic Demonstration**

For each factor provide a discussion of expected positive and negative impacts. Include appropriate support documentation.

# **SECTION III – Alternative Analysis**

For each alternative compare the feasibility and costs of the alternative to the feasibility and costs of the proposed project and its treatment system. Include appropriate support documentation.

#### **SECTION IV - CERTIFICATION**

Name and Title: Indicate the name and title of the person signing the form.

Telephone No.: Provide the telephone number of the person signing the form.

**Date:** Indicate the date which the form was signed.

This form being part of the permit application must be signed as follows:

**Corporation:** by a principal executive officer of at least the level of vice president **Partnership or sole proprietorship:** by a general partner or the proprietor respectively

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**IV Certification:** I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and Title:	Charlie Collins	Telephone No.:	(606)596-0111
Signature:	Charlie Calli	Date:	03/26/2010

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